

Recombinant Mouse F13a1 protein, His & T7-tagged

Cat. No. F13a1-1499M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse F13a1 aa. (Asn372~Ser616 (Accession # Q8BH61)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Asn372~Ser616
Description	This gene encodes subunit A of the coagulation factor XIII that catalyzes the final step of the blood coagulation pathway. The encoded protein associates with subunit B to form a heterotetrameric proenzyme that undergoes thrombin-mediated proteolysis to generate active factor XIIIa. The transglutaminase activity of factor XIIIa is required for the calcium-dependent crosslinking of fibrin, leading to the formation of a clot. Mice lacking the encoded protein display impaired reproduction and reduced survival due to bleeding episodes, hemothorax, hemoperitoneum and subcutaneous hemorrhage. Additionally, mice lacking the encoded protein exhibit impaired wound healing and inadequate healing of myocardial infarction. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.3kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method).

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Purity	>95%
Characteristic	The isoelectric point is 5.9.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	F13a1 coagulation factor XIII, A1 subunit [Mus musculus (house mouse)]
Official Symbol	F13a1
Synonyms	F13a; AI462306; 1200014I03Rik; coagulation factor XIII, alpha subunit; coagulation factor XIIIa; protein-glutamine gamma-glutamyltransferase A chain; transglutaminase A chain; coagulation factor XIII A chain
Gene ID	74145
mRNA Refseq	NM_001166391.1

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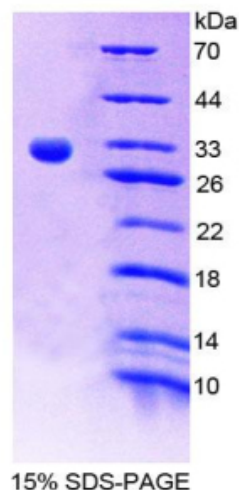
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Protein Refseq NP_001159863.1

UniProt ID Q8BH61

SDS-PAGE



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